BEST BUY
BARNES & NOBLE
BOOKSELLERS
THOMAS JEFFERSON
NOAA
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GENERAL NOTES

1. THIS DRAWING WAS DEVELOPED AND CONVERTED TO AUTOCAD FORMAT FROM REFERENCE 1 AND INCORPORATES PERTINENT MODIFICATIONS FROM REFERENCES 2 THRU 19, UNDOCUMENTED CHANGES NOTED DURING 12/12/2005 SHIPCHECK AND CHANGES ACCOMPLISHED DURING 2006 DRYDOCKING.

BOOKLET INDEX

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REVISIONS

REV	SHT	ZONE	ITEM	DESCRIPTION	DATE	APPD

REFERENCES

NO	TITLE	DRAWING NO
1	BOOKLET OF GENERAL PLANS (OBSOLETE)	TJ-085-6634626
2	GENERAL ARR HOLD PLAN, FLATS AND LOWER DECK	TJ-085-6634610
3	TANK CAPACITY AND DEADWEIGHT SCALE PLAN	TJ-085-6980295
4	TANK CAPACITY AND DEADWEIGHT SCALE PLAN	TJ-085-6634644
5	GENERAL ARR: BRIDGE DECK AND PILOT HOUSE	TJ-085-6634631
6	GENERAL ARR: MAIN DECK, FCSLE DECK AND UPPER DECK	TJ-085-6634611
7	INBOARD PROFILE	TJ-085-6634609
8	OUTBOARD PROFILE, TOP AND END VIEWS	TJ-085-6634608
9	SAFETY PLAN	TJ-085-6634614
10	AFT MAIN AND 01 DECK MODS, NEW LADDER INSTALLATION	TJ-131-001
11	AFT MAIN AND 01 DECK MODS, GENERAL ARR	TJ-152-001
12	AFT MN & 01 DK MODS, 01 DK EXT STR & GRTG REPL	TJ-152-002
13	STEERING GEAR ROOM SCUTTLE ARRANGEMENTS	TJ-167-003
14	MAIN MAST ARRANGEMENT AND DETAILS	TJ-171-002
15	ANTENNA ARRANGEMENT	TJ-171-003
16	GENERIC WINCH STRL MODS AND DETAILS	TJ-180-001
17	MVP FOUNDATION INSTALLATION FOUNDATION DETAILS	TJ-180-002
18	POTABLE WATER TANKS, PORT AND STARBOARD SIDE	TJ-533-002
19	AFT MN & 01 DK MODS, NEW TRANSOM MOORING CHOCK INSTL	TJ-582-002
20	DOCKING PLAN	TJ-801-6634613

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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CONTRACT NO. AB133M-05-CQ-1044
TAR NO. AAA-005
DSGN M. CAMPBELL 1/12/06
DWN M. CAMPBELL 1/12/06
CHK V. PARKER 1/13/06
CHK J. CARLSON 1/19/06
NOAA APPROVAL

NOAA THOMAS JEFFERSON

BOOKLET
OF
GENERAL PLANS

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	–

SCALE: NONE | CAD FILENAME TJ-085-002 | SHT 1 OF 15

GENERAL INFORMATION

LENGTH BETWEEN PERPENDICULARS	190'–0"
LENGTH OVERALL	208'–2 1/4"
BREADTH MOLDED	45'–0"
DEPTH MAIN DECK AT SIDE	22'–9"
DRAFT, DESIGN	14'–0"
DRAFT, FULL LOAD	14'–0"
SUSTAINED SEA SPEED	12 KNOTS
ABS EQUIPMENT NUMERAL	U–14

HEIGHTS ABOVE BASELINE

TOP OF JACKSTAFF	65'–3"
TOP OF MAIN MAST	88'–0"
TOP OF ENSIGN STAFF	43'–11 5/8"
FWD ANCHOR LIGHT	65'–3"
AFT ANCHOR LIGHT	43'–11 5/8"
FWD MASTHEAD LIGHT	62'–9"
AFT MASTHEAD LIGHT	88'–0"
FWD TOWING LIGHT (UPPER)	56'–1"
FWD TOWING LIGHT (LOWER)	49'–5"
AFT TOWING LIGHT	42'–11 5/8"
SIDE LIGHTS P/S	48'–11 1/4"
TASK LIGHTS (UPPER) P/S	87'–3"
TASK LIGHTS (MIDDLE) P/S	75'–3"
TASK LIGHTS (LOWER) P/S	63'–3"
NAVY STERN LIGHT	39'–8 1/8"
STERN LIGHT	36'–4 5/8"
SEARCHLIGHTS 11'–0" P/S TOP OF PILOT HOUSE	59'–3 5/8"

REPLENISHMENT STATIONS

FUEL OIL	MAIN DECK FR 69 P/S
FRESH WATER	MAIN DECK FR 89 S
FRESH WATER	FCSLE DECK FR 17 P
FRESH WATER	FCSLE DECK FR 61 CL

ACCOMMODATIONS

PERSONNEL	BERTH	WARDROBE	CHEST/DESK
MASTER/CO	1	1	1 CHEST/1 DESK
CHIEF ENGINEER	1	1	1 CHEST/1 DESK
SINGLE S/R	6	6	6 CHEST/6 DESK
CREW/TECHNICIAN S/R	28	28	28 CHEST/4 DESK
MEDICAL	2	2	1 DESK

SMALL BOATS

QTY	NAME	PERSONNEL EACH	PERSONNEL TOTAL
3	LIFERAFT, INFLATABLE	20	60
3	LIFERAFT, INFLATABLE	25	75
2	HYDROGRAPHIC SURVEY LAUNCH	–	–
1	RESCUE (RIGID INFLATABLE BOAT)	–	–
1	MISSION (RIGID INFLATABLE BOAT)	–	–

WEIGHT DISPLACEMENT

DISPLACEMENT	WEIGHT
DEADWEIGHT	838.14 LONG TONS
FULL LOAD	2,009.81 LONG TONS
LIGHT SHIP	1,171.67 LONG TONS

STEERING GEAR

ENGINE MONITOR, DUAL ELECTRO–HYDRAULIC POWERED

DECK MACHINERY

QTY	NAME	CAPACITY
1	RESCUE BOAT DAVIT	3500#
4	HSL BOAT DAVIT	9300#
1	ANCHOR WINDLASS	22,000# @ 33 RPM
1	DT MARINE MOD 307EHLWR TOW WINCH BARE DRUM	500# @ 0–300 FPM
1	DT MARINE MOD 3020EHLWR TOW WINCH BARE DRUM	4000# @ 0–120 FPM
1	MVP100 PROFILER	___
2	HYDRAULIC POWERED CRANE	SEE CRANE CAPACITY TABLE

TANK CAPACITY

TANK	TOTAL GAL
AUXILIARY ENGINE LUBE OIL (98%)	347
DIRTY OIL (98%)	1,006
EMER DIESEL GEN DAY TANK	253
FUEL OIL STORAGE (98%)	194,508
GEAR LUBE OIL (98%)	347
GREY WATER	8,632
HYDRAULIC OIL (98%)	693
MAIN ENGINE LUBE OIL (98%)	693
OILY BILGE (98%)	1,006
POTABLE WATER (100%)	22,959
ROLL STABILIZATION (100%)	23,583
SALTWATER BALLAST (100%)	131,633
SEWAGE (98%)	7,852

PROVISIONS CAPACITY

DRY STORAGE	128.7 SQ FT
CHILLED STORAGE	87.1 SQ FT
FREEZER STORAGE	91.0 SQ FT

PROPULSION MACHINERY/ELECTRICAL PLANT

QTY	NAME
1	MAIN ENGINE: MARINE DIESEL ENGINE, TURBOCHARGED, MODEL 12–645F7B, RATED AT 2550 BHP @ 900 RPM
1	AUXILIARY ENGINE: DETROIT DIESEL MODEL 8062–7000 RATED AT 230 HP CONTINUOUS @ 1800 RPM, SERIES 6V–92N
3	MAIN GENERATOR SET: DIESEL POWERED WITH DETROIT DIESEL DDC(MTU) SERIES 60 WITH MARATHON 345KW ALTERNATOR MODEL 433RSL1021, 460 VOLTS, 1800 RPM, 3 PHASE, 60 HZ
1	EMERGENCY GENERATOR SET: DIESEL POWERED MODEL 8VAR–150 W/DETROIT DIESEL 6V–92NA W/KATO 150 KW GENERATOR, MODEL 4P2–1438, 1800 RPM, 3 PHASE, 60 HZ
1	PROPELLER: 106" DIA, 5 BLADE, FIXED PITCH
1	MECHANICAL TUNNEL THRUSTER: THRUSTMASTER MODEL 42TT400L

MOTOR CONTROLLERS:

1	AFT CRANE	50 HP
1	AIR COMPRESSOR NO. 2	10 HP
1	AIR HANDLING UNIT (01–33–1)	7.5 HP
1	AIR HANDLING UNIT (1–15–2)	7.5 HP
1	AIR HANDLING UNIT (1–44–2)	5 HP
1	AIR HANDLING UNIT (1–80–2)	2 HP
1	AIR HANDLING UNIT (2–62–2)	3 HP
1	ANCHOR WINDLASS POWER PACK	40 HP
1	BILGE PUMP	7.5 HP
1	BOSUNS STORES SUPPLY FAN	1/3 HP
1	BOW THRUSTER VFD	400 HP
1	"C" FRAME HYDRAULIC POWER PACK	3 HP
1	ELECTRIC/HYDRAULIC WINCH	20 HP
1	ELECTRIC WINCH AFT	3/4 HP
1	EMERGENCY ROOM SUPPLY FAN	1/3 HP
1	FIRE PUMP	60 HP
1	FWD CRANE	40 HP
1	GALLEY EXHAUST FAN (E1–18–2)	3 HP
1	GREY WATER LIFT STATION	3/4 HP
1	HSL HYDRAULIC POWER PACK	60 HP
1	PASSAGE SUPPLY FAN (S1–55–2)	1 HP
1	POTABLE WATER PRESSURE SET NO. 1	1 HP
1	POTABLE WATER PRESSURE SET NO. 2	1 HP
1	QUARTERS EXHAUST FAN (E1–10–2)	3 HP
1	STEERING COMPARTMENT SUPPLY FAN	1 HP
1	SEWAGE GRINDER PUMP	2 HP
1	STEERING HYDRAULIC PUMP NO. 1	7.5 HP
1	STEERING HYDRAULIC PUMP NO. 2	7.5 HP
1	TEMPERED AIR FAN (TA1–12–2)	7.5 HP
1	WORKSHOP SUPPLY FAN (S2–85–2)	1.5 HP

CRANE CAPACITY TABLE

MAIN HOIST – STATIC RATED LOAD					MAIN HOIST – SAFE WORKING LOAD AT SEA				
BOOM	EXTENDED		RETRACTED		BOOM	EXTENDED		RETRACTED	
REACH FT	ANGLE DEG	CAPACITY LBS	ANGLE DEG	CAPACITY LBS	REACH FT	ANGLE DEG	CAPACITY LBS	ANGLE DEG	CAPACITY LBS
5	82.2	16,700	76.9	16,700	5	82.2	9,000	76.9	9,000
10	76.6	16,700	67.1	16,700	10	76.6	9,000	67.1	9,000
15	70.8	16,700	56.5	16,700	15	70.8	9,000	56.5	9,000
20	64.7	16,700	44.6	16,700	20	64.7	9,000	44.6	9,000
25	58.4	15,100	29.3	16,700	25	58.4	8,100	29.3	9,000
30	51.7	13,000	0	15,000	30	51.7	7,000	0	8,000
35	44.2	11,500	–	–	35	44.2	6,200	–	–
40	35.6	10,200	–	–	40	35.6	5,500	–	–
45	24.8	9,000	–	–	45	24.8	4,900	–	–
50	0	7,000	–	–	50	0	3,800	–	–

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ–085–002	–
SCALE: NONE		CAD FILENAME TJ–085–002	SHT 2 OF 15

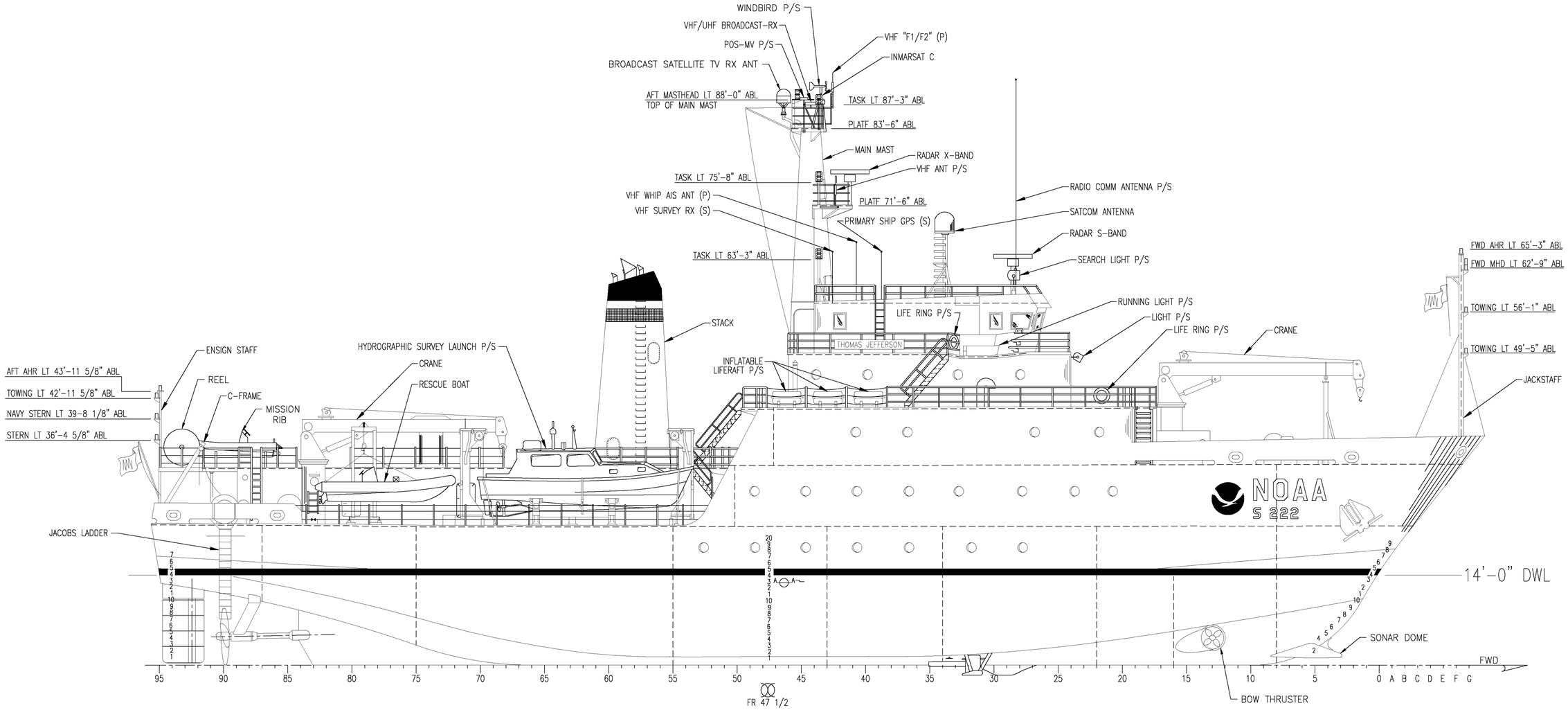
COMPARTMENT DIRECTORY

COMPARTMENT DESIGNATION	NO	DECK	FRAME
AFT RADIO ROOM	03-39-2	BRIDGE	39-44 P
AUXILIARY ENGINE LUBE OIL TANK	3-75-2	FLAT	75-77 P
BALLAST TANK	4-8-1	HOLD	8-16 S
BALLAST TANK	4-8-2	HOLD	8-16 P
BALLAST TANK	4-22-1	HOLD	22-30 S
BALLAST TANK	4-22-2	HOLD	22-30 P
BALLAST TANK	4-43-1	HOLD	43-55 S
BALLAST TANK	4-43-2	HOLD	43-55 P
BALLAST TANK	4-57-0	HOLD	57-65 CL
BALLAST TANK	4-59-0	HOLD	59-65 CL
BALLAST/EFFLUENT HOLDING TANK	4-75-0	HOLD	75-87 CL
BATH	03-33-1	BRIDGE	33-36 S
BOATSWAIN STORAGE	1-C-0	MAIN	C-8 CL
BOW THRUSTER THRUNK	4-12-0	HOLD	12-14 CL
CAPTAIN'S OFFICE	02-24-1	UPPER	24-37 S
CAPTAIN'S STATEROOM	02-37-3	UPPER	37-46 S
CHAIN LOCKER	2-6-0	LOWER	6-8 CL
CHART ROOM	03-36-0	BRIDGE	36-44 CL
CHIEF ENGINEER'S OFFICE	01-19-1	FCSLE	19-25 S
CHIEF ENGINEER'S STATEROOM	01-25-1	FCSLE	25-30 S
CHIEF STEWARDS OFFICE	1-25-4	MAIN	25-28 P
CHILLED STORES	2-14-2	LOWER	14-18 P
CLEANING GEAR LOCKER	02-31-1	UPPER	31-33 S
CLEANING GEAR LOCKER	01-30-1	FCSLE	30-32 S
CLEANING GEAR LOCKER	1-8-2	MAIN	8-11 P
CLEANING GEAR LOCKER	2-35-1	LOWER	35 1/2-38 S
CLEANING GEAR LOCKER	2-44-1	LOWER	44 1/2-47 1/2 S
DAMAGE CONTROL LOCKER	1-55-2	MAIN	55 1/2-63 P
DECK GEAR LOCKER	01-43-3	FCSLE	43-47 S
DECK STORAGE LOCKER	01-43-5	FCSLE	43-47 S
DIESEL OIL SERVICE TANK	4-75-1	HOLD	75-81 S
DIESEL OIL SERVICE TANK	4-75-2	HOLD	75-81 P
DIESEL OIL STORAGE TANK	4-16-1	HOLD	16-22 S
DIESEL OIL STORAGE TANK	4-16-2	HOLD	16-22 P
DIESEL OIL STORAGE TANK	4-34-0	HOLD	34-43 CL
DIESEL OIL STORAGE TANK	4-34-1	HOLD	34-43 S
DIESEL OIL STORAGE TANK	4-34-2	HOLD	34-43 P
DIESEL OIL STORAGE TANK	4-55-1	HOLD	55-71 S
DIESEL OIL STORAGE TANK	4-55-2	HOLD	55-71 P
DIESEL OIL STORAGE TANK	4-75-3	HOLD	75-87 S
DIESEL OIL STORAGE TANK	4-75-4	HOLD	75-87 P
DIESEL OIL TANK	4-43-0	HOLD	43-55-CL
DIVE LOCKER	1-77-0	MAIN	77-83 CL
DRAIN HOLDING TANK	4-22-0	HOLD	22-30 CL
DRY STORES	1-25-2	MAIN	25-32 P
EMERGENCEY DIESEL GENERATOR DAY TANK	01-87-2	MAIN	87-88 P
EMERGENCEY GENERATOR ROOM	1-83-0	MAIN	83-89 CL
ENGINE ROOM	4-55-0	HOLD	55-75 CL
ENGINEER'S STORAGE	2-75-1	LOWER	75-87 S
EXERCISE ROOM	3-22-0	FLAT	22-30 CL
FAN ROOM	01-30-3	FCSLE	30-34 S
FAN ROOM	1-8-4	MAIN	8-16 P
FIRST ASST ENGINEER STATEROOM	01-29-2	FCSLE	29-35 P
FIRST ASSISTANT ENGINEER'S OFFICE	01-35-2	FCSLE	35-39 P
FOREPEAK BALLAST	4-0-0	HOLD	0-8 CL
FREEZER STORES	2-18-2	LOWER	18-22 P
GALLEY	1-16-2	MAIN	16-25 P
GEAR LUBE OIL TANK	3-75-1	FLAT	75-77 S
GREY WATER TANK	4-22-0	HOLD	22-30 CL
GSM STORAGE	1-8-1	MAIN	8-16 S
GSM STORAGE	2-8-1	LOWER	8-22 S
HOSPITAL	1-42-1	MAIN	42-50 S
HYDRAULIC OIL TANK	3-75-3	FLAT	75-77 S
LAUNCH LOCKER	1-69-2	MAIN	69 1/2-73 P
LAUNDRY	3-22-2	FLAT	22-30 P
LINEN LOCKER	01-43-1	FCSLE	43-47 S
LOCKER	02-31-1	UPPER	31-33 S
LOCKER	01-17-1	FCSLE	17-19 S
LOUNGE	1-30-1	MAIN	30-42 S
MACHINERY CONTROL STATION	2-63-1	LOWER	63-75 S
MAIN ENGINE LUBE OIL	3-75-4	FLAT	75-77 P
MESS DECK	1-16-1	MAIN	16-30 S
OILY BILGE TANK	4-55-1	HOLD	55-57 S
OPERATIONS OFFICER'S OFFICE	01-19-2	FCSLE	19-25 P
OPERATIONS OFFICER'S STATEROOM	01-23-2	FCSLE	23-29-P
PAINT LOCKER	1-88-2	MAIN	88-90 P
PASSAGEWAY	02-26-0	UPPER	26-46 CL
PASSAGEWAY	01-17-0	FCSLE	17-47 CL
PASSAGEWAY	01-25-2	FCSLE	25-31 1/2 P
PASSAGEWAY	1-8-0	MAIN	8-16 CL
PASSAGEWAY	1-16-0	MAIN	16-50 CL
PASSAGEWAY	1-50-0	MAIN	50-77 CL
PASSAGEWAY	2-8-0	LOWER	8-25 CL
PASSAGEWAY	2-25-0	LOWER	25-34 CL
PASSAGEWAY	2-34-0	LOWER	34-43 CL
PASSAGEWAY	2-43-0	LOWER	43-51 CL

COMPARTMENT DIRECTORY

COMPARTMENT DESIGNATION	NO	DECK	FRAME
PILOT HOUSE	03-27-0	BRIDGE	27-36 CL
PLOT RM	1-32-4	MAIN	32-50 P
POTABLE WATER TANK	2-87-1	LOWER	87-95 S
POTABLE WATER TANK	2-87-2	LOWER	87-95 P
POTABLE WATER TANK	3-30-1	FLAT	30-33 S
POTABLE WATER TANK	3-30-2	FLAT	30-33 P
POTABLE WATER MACHINERY ROOM	3-27-0	FLAT	27-30 CL
PUBLIC TOILET	1-48-2	MAIN	48-50 P
RADIO ROOM	03-33-2	BRIDGE	33-39 P
ROLL STABILIZATION TANK	3-51-0	FLAT	51-55 CL
SCIENTIFIC STORAGE	2-22-1	LOWER	22-25 S
SCIENTIFIC STORAGE	2-22-2	LOWER	22-34 P
SHIP STORAGE	2-8-2	LOWER	8-14 P
SHIPS STORE	1-11-2	MAIN	11-14 P
SLOP TANK	4-55-2	HOLD	55-57 P
SONAR DOME	4-2-0	HOLD	2-3 CL
SSFC/UPS SPACE	1-32-2	MAIN	31 1/2-35 P
STAIR PASSAGE	02-33-1	UPPER	33-37 S
STAIR PASSAGE	2-37-1	LOWER	35 1/2-41 S
STAIR PASSAGE	2-46-1	LOWER	46-49 1/2 S
STAIRTOWER	3-25-2	FLAT	25-31 1/2 P
STATEROOM (1 MAN)	01-39-1	FCSLE	39-43 S
STATEROOM (1 MAN)	01-39-2	FCSLE	39-43 P
STATEROOM (1 MAN)	01-43-4	FCSLE	43-46 P
STATEROOM (2 MAN)	02-40-2	UPPER	40-46 P
STATEROOM (2 MAN)	01-34-1	FCSLE	34-39 S
STATEROOM (2 MAN)	2-25-1	LOWER	25-30 S
STATEROOM (2 MAN)	2-30-1	LOWER	30-34 S
STATEROOM (2 MAN)	2-34-1	LOWER	34-39 S
STATEROOM (2 MAN)	2-34-2	LOWER	34-39 P
STATEROOM (2 MAN)	2-39-1	LOWER	39-43 S
STATEROOM (2 MAN)	2-39-2	LOWER	39-43 P
STATEROOM (2 MAN)	2-43-1	LOWER	43-47 S
STATEROOM (2 MAN)	2-43-2	LOWER	43-47 P
STATEROOM (2 MAN)	2-47-1	LOWER	47-51 S
STATEROOM (2 MAN)	2-47-2	LOWER	47-51 P
STATEROOM (2 MAN)	2-51-1	LOWER	51-55 S
STATEROOM (2 MAN)	2-51-2	LOWER	51-55 P
STEERING GEAR ROOM	4-87-0	HOLD	87-95 CL
TRANSDUCER, VOID	4-30-0	HOLD	30-34 CL
T/SH	02-37-1	UPPER	37-40 S
T/SH	02-37-2	UPPER	37-40 P
T/SH	02-37-4	UPPER	37-40 P
T/SH	01-26-2	FCSLE	26-29 P
T/SH	01-27-1	FCSLE	27-30 S
T/SH	01-32-2	FCSLE	31 1/2-34 P
T/SH	01-36-1	FCSLE	36-39 S
T/SH	01-38-2	FCSLE	38-41 P
T/SH	01-41-1	FCSLE	40-43 S
T/SH	01-43-2	FCSLE	42-45 P
T/SH	2-28-1	LOWER	28-31 S
T/SH	2-37-2	LOWER	37-40 P
T/SH	2-37-3	LOWER	37-40 S
T/SH	2-46-2	LOWER	46-49 P
T/SH	2-46-3	LOWER	46-49 S
T/SH	2-52-0	LOWER	52-55 CL
T/SH (HOSPITAL)	1-47-1	MAIN	47-50 S
UPTAKE	1-58-0	MAIN	58-61 CL
VENT	1-56-0	MAIN	55 1/2-58 CL
VENT	1-73-2	MAIN	72 1/2-75 P
VOID	2-87-4	LOWER	87-88 1/2 P
VOID	4-87-1	HOLD	87-95 S
VOID	4-87-2	HOLD	87-95 P
WORKSHOP	2-75-0	LOWER	75-87 CL
XO'S OFFICE	02-24-0	UPPER	24-31 1/2 S
XO'S SR	02-31-2	UPPER	31 1/2-37 P

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	-
SCALE: NONE		CAD FILENAME TJ-085-002	SHT 3 OF 15



OUTBOARD PROFILE

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
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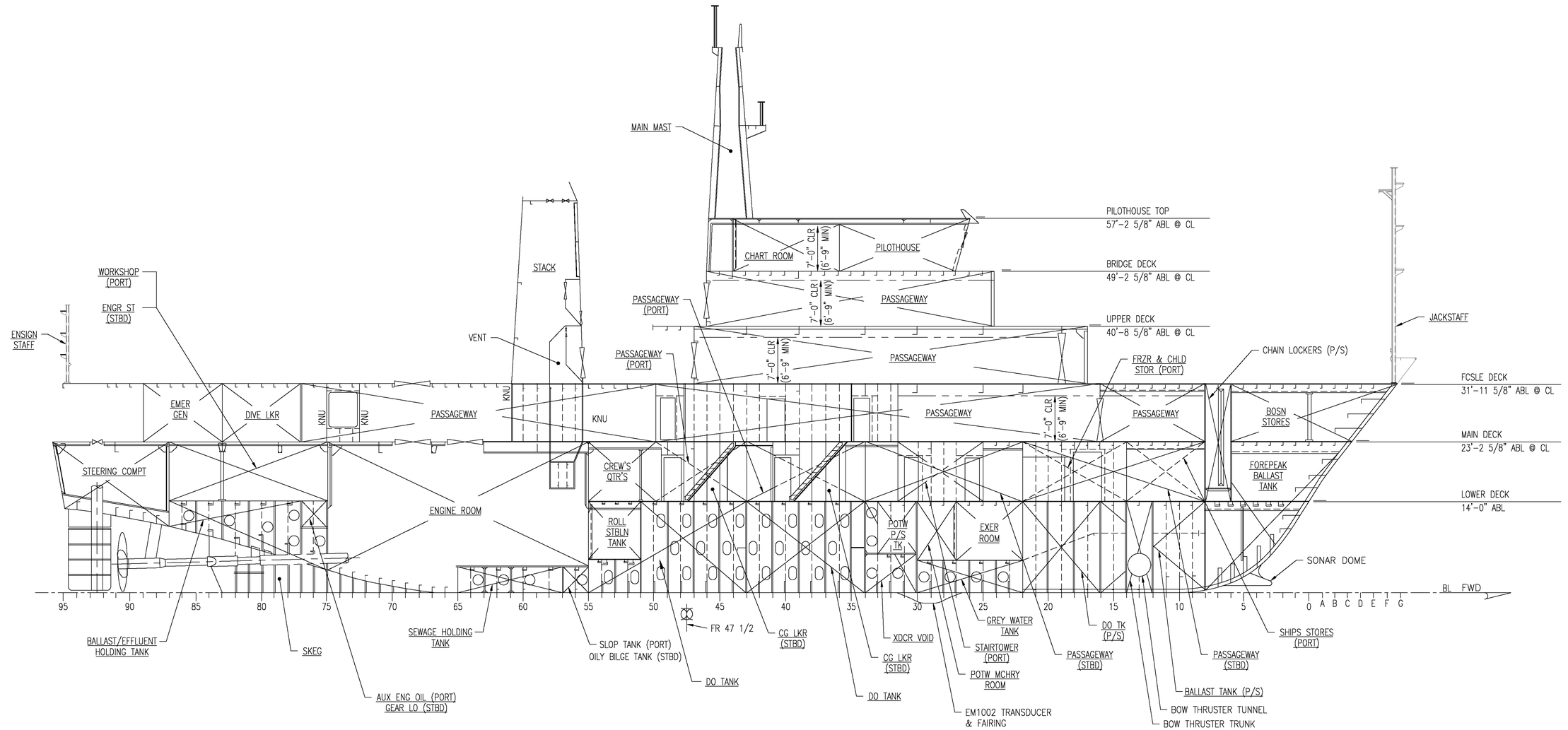
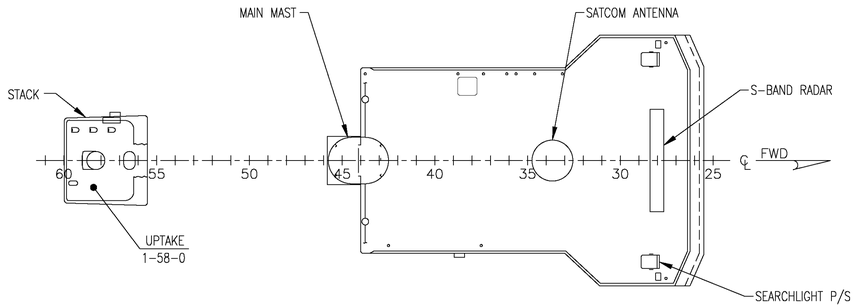
SCALE: 1/8"=1'-0"	CAD FILENAME TJ-085-002		SHT 4 OF 15



INBOARD PROFILE

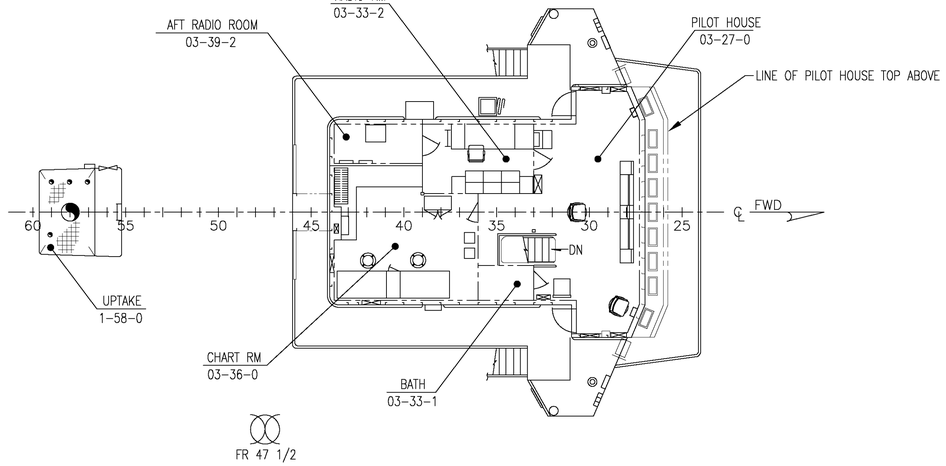
CL OF VESSEL LOOKING PORT
JOINER DIVISIONAL BHD'S AND METAL
JOINER BHD'S NOT SHOWN FOR CLARITY

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	–
SCALE: 1/8"=1'-0"	CAD FILENAME TJ-085-002	SHT 5 OF 15	



PILOTHOUSE TOP

57'-2 5/8 ABL@CL



BRIDGE DECK

49'-2 5/8" ABL @ CL

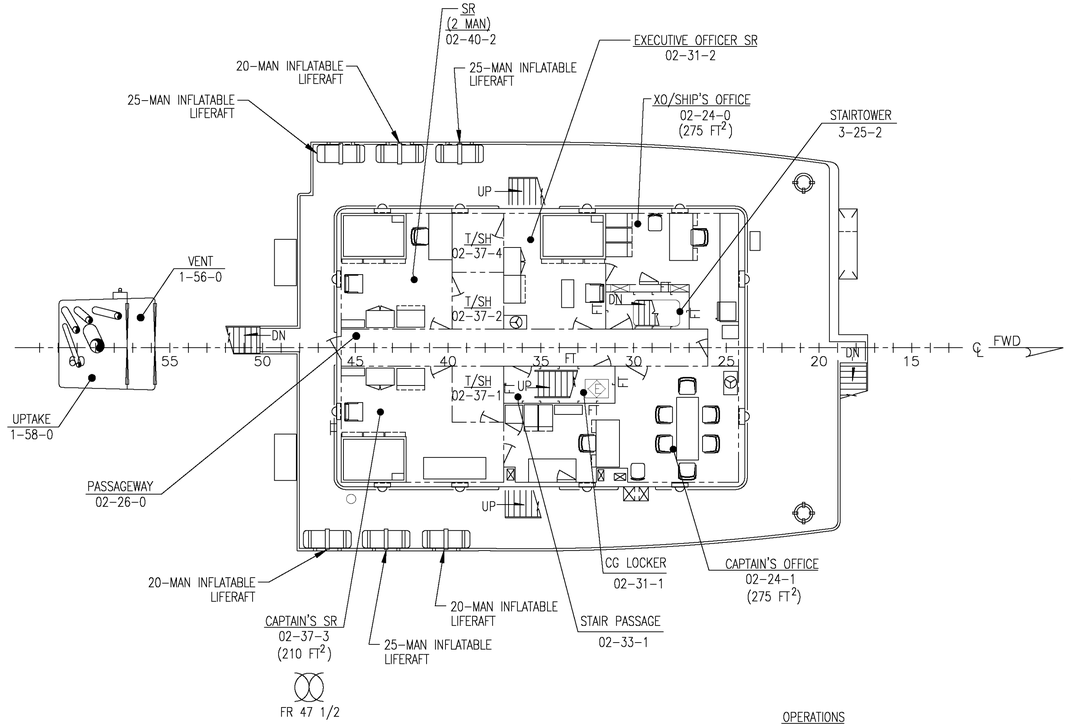
LEGEND:

STEEL BHD

JOINER DIVISIONAL BHD

EXPANDED METAL BHD

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	-
SCALE: 1/8"=1'-0"	CAD FILENAME TJ-085-002	SHT 6 OF 15	

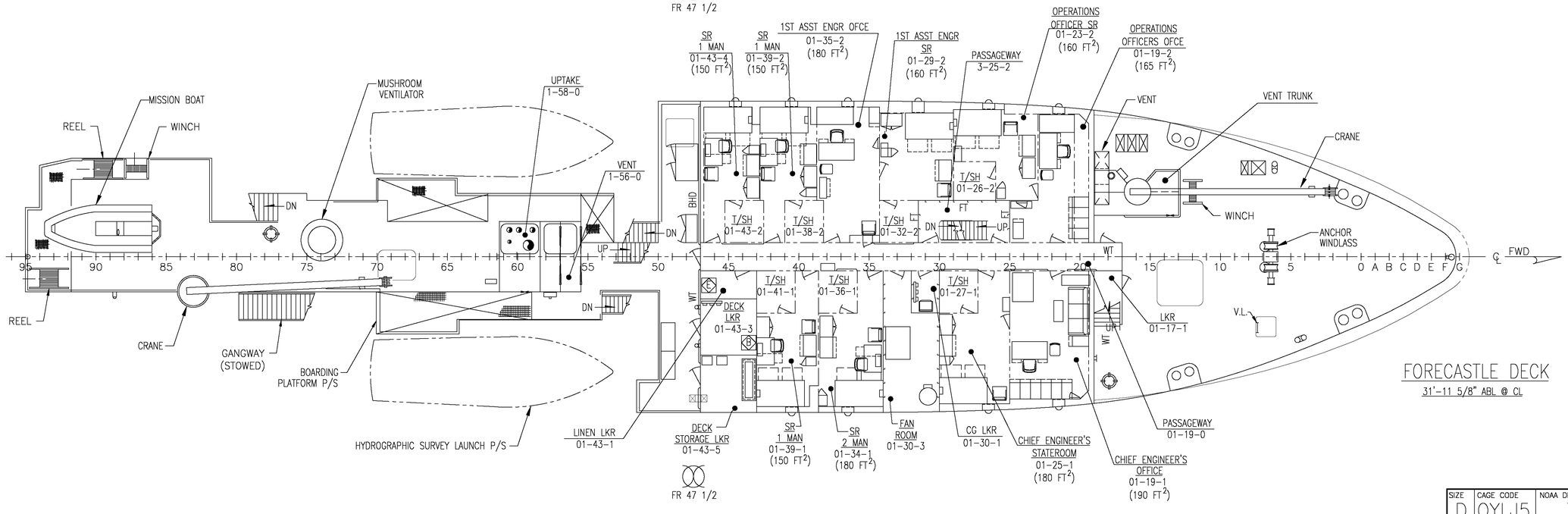


UPPER DECK

40'-8 5/8" ABL @ CL

LEGEND:

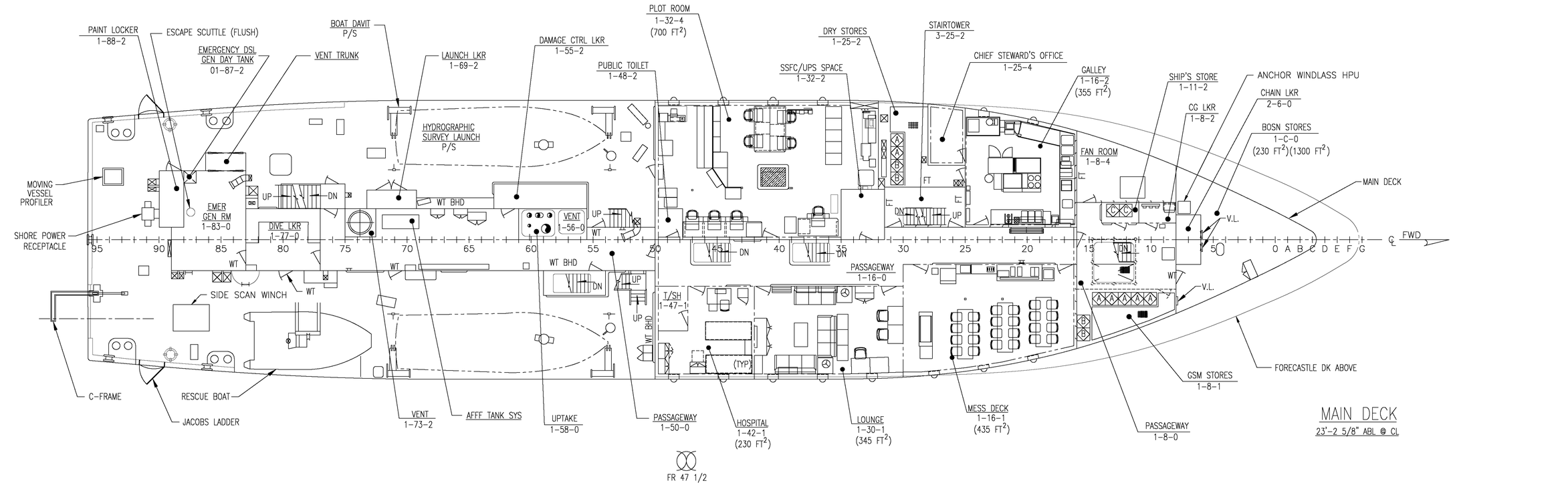
- STEEL BHD
- JOINER DIVISIONAL BHD
- EXPANDED METAL BHD



FORECASTLE DECK

31'-11 5/8" ABL @ CL

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	–
SCALE: 1/8"=1'-0"	CAD FILENAME TJ-085-002	SHT 7 OF 15	



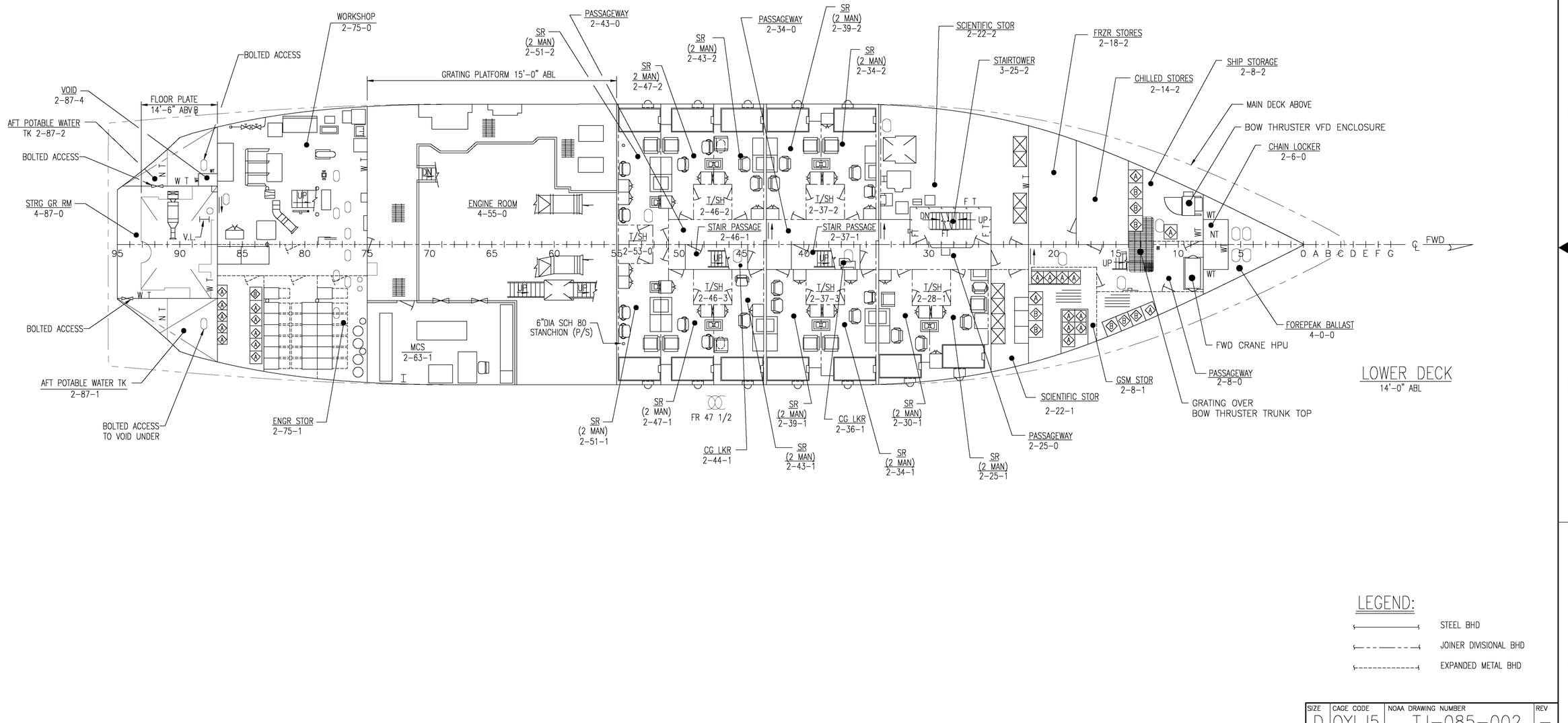
MAIN DECK

23'-2 5/8" ABL @ CL

LEGEND:

- STEEL BHD
- JOINER DIVISIONAL BHD
- EXPANDED METAL BHD

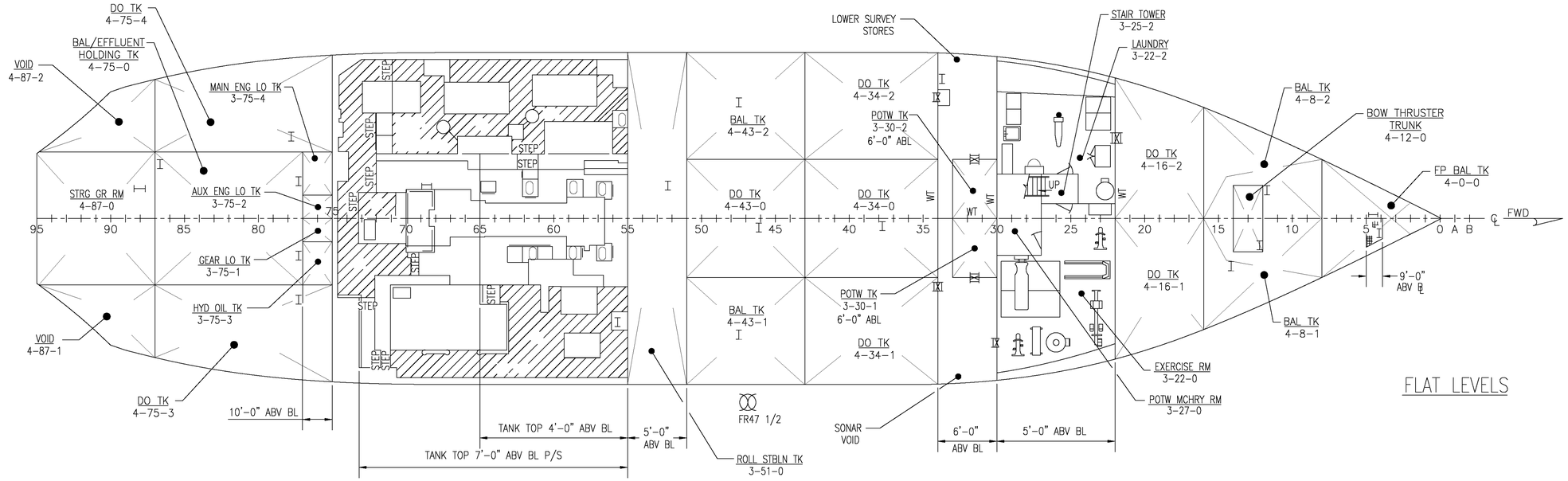
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	–
SCALE: 1/8"=1'-0"	CAD FILENAME TJ-085-002	SHT 8 OF 15	

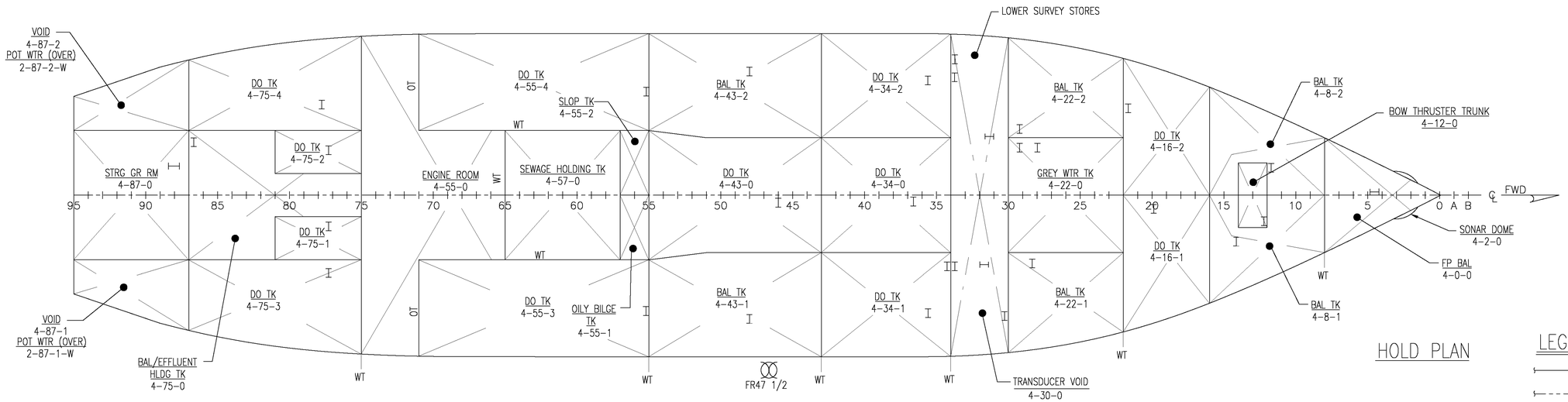


LEGEND:

- STEEL BHD
- JOINER DIVISIONAL BHD
- EXPANDED METAL BHD

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	–
SCALE: 1/8"=1'-0"	CAD FILENAME TJ-085-002	SHT 9 OF 15	





SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	–
SCALE: 1/8"=1'-0"	CAD FILENAME TJ-085-002	SHT 10 OF 15	

PROPELLER TIP CLEARANCE TABLE

TRIM (INCHES)	BY	PROPELLER CLEARANCE INCHES FROM LOW POINT
6	BOW	5.6
0	EVEN KEEL	0.75
6	STERN	0.32
10 & GREATER	STERN	0

PARTS LIST

ITEM NO.	QTY.	SIZE	DESCRIPTION	MATERIAL	SPEC NO.	CODE IDENT	PART NO.	REMARKS	GR NO.	UNIT WT LBS
1	30	1 1/2"	PLUG, PIPE W/SQ SOCKET	BRZ						
2	30	1 1/2"	HALF COUPLING	SST						

TABLE OF OFFSETS FOR SIDE BLOCKS INTERVALS GIVEN IN INCREMENTS OF 8'–0"

NO.2 DOCKING POSITION–AFTER SIDE OF NO.1 BLOCK 45'–6 3/8" FROM AFT REF POINT

SIDE	BLK NO.	FWD OF REF PT	POINT A		POINT B		BEVEL IN 18" FOR C
			HB	HT	HB	HT	
P/S	1	45'–6 3/8"	7–9–0	3–6–4+	10–3–0	4–0–7+	–4 5/8"
P/S	2	53'–6 3/8"	7–9–0	1–9–1+	10–3–0	2–3–1	–3"
P/S	3	61'–6 3/8"	13–9–0	1–9–2	16–3–0	2–1–6	–2"
P/S	4	69'–6 3/8"	13–9–0	1–1–5+	16–3–0	1–4–5	–1 1/16"
P/S	5	77'–6 3/8"	13–9–0	0–10–5+	16–3–0	1–1–0	0
P/S	6	85'–6 3/8"	13–9–0	0–10–5+	16–3–0	1–1–0	0
P/S	7	93'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	8	101'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	9	109'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	10	117'–6 3/8"	12–9–0	0–9–7+	15–3–0	1–0–2	0
S	11	125'–6 3/8"	12–9–0	0–11–6	15–3–0	1–2–4	(–) 9/16"
P/S	12	133'–6 3/8"	6–9–0	0–7–3+	9–3–0	0–11–1+	(–) 5/8"
P/S	13	141'–6 3/8"	6–9–0	0–11–7	9–3–0	1–5–3	(–) 1 1/4"
P/S	14	149'–6 3/8"	6–9–0	1–7–5	9–3–0	2–4–1	(–) 2 1/8"

TABLE OF OFFSETS FOR SIDE BLOCKS INTERVALS GIVEN IN INCREMENTS OF 8'–0"

NO.1 DOCKING POSITION–AFTER SIDE OF NO.1 BLOCK 43'–6 3/8" FROM AFT REF POINT

SIDE	BLK NO.	FWD OF REF PT	POINT A		POINT B		BEVEL IN 18" FOR C
			HB	HT	HB	HT	
P/S	1	43'–6 3/8"	7–9–0	4–1–0	10–3–0	4–7–3	–4 7/8"
P/S	2	51'–6 3/8"	7–9–0	2–1–5	10–3–0	2–7–6+	–3 7/16"
P/S	3	59'–6 3/8"	13–9–0	1–11–7+	16–3–0	2–4–7	–2 3/16"
P/S	4	67'–6 3/8"	13–9–0	1–3–2	16–3–0	1–6–3+	–1 1/4"
P/S	5	75'–6 3/8"	13–9–0	0–10–7+	16–3–0	1–1–2	– 0 1/8"
P/S	6	83'–6 3/8"	13–9–0	0–10–5+	16–3–0	1–1–0	0
P/S	7	91'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	8	99'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	9	107'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	10	115'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	11	123'–6 3/8"	12–9–0	0–11–1	15–3–0	1–0–5+	(–) 1/2"
P/S	12	OMIT	–	–	–	–	–
P/S	13	139'–6 3/8"	6–9–0	0–10–4	9–3–0	1–3–4	(–)1 1/8"
P/S	14	147'–6 3/8"	6–9–0	1–5–2+	9–3–0	2–0–7+	(–)1 7/8"

TABLE OF OFFSETS FOR SIDE BLOCKS INTERVALS GIVEN IN INCREMENTS OF 12'–0"

NO.2 DOCKING POSITION–AFTER SIDE OF NO.1 BLOCK 45'–6 3/8" FROM AFT REF POINT

SIDE	BLK NO.	FWD OF REF PT	POINT A		POINT B		BEVEL IN 18" FOR C
			HB	HT	HB	HT	
P/S	1	45'–6 3/8"	7–9–0	3–6–4+	10–3–0	4–0–7+	–4 5/8"
P/S	2	57'–6 3/8"	13–9–0	2–3–1+	16–3–0	2–8–4+	–2 5/8"
P/S	3	69'–6 3/8"	13–9–0	1–1–5+	16–3–0	1–4–5	–1"
P/S	4	81'–6 3/8"	13–9–0	0–10–5+	16–3–0	1–1–0	0
P/S	5	93'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	6	105'–6 3/8"	12–9–0	0–9–6	15–3–0	1–0–0+	0
P/S	7	117'–6 3/8"	12–9–0	0–9–7	15–3–0	1–0–1	0
P/S	8	129'–6 3/8"	12–9–0	1–1–5	15–3–0	1–4–6	(–) 7/8"
P/S	9	141'–6 3/8"	6–9–0	0–11–7	9–3–0	1–5–3	(–)1 15/16"
P/S	10	153'–6 3/8"	6–9–0	2–1–3+	9–3–0	2–11–7+	(–) 2 3/4"

TABLE OF OFFSETS FOR SIDE BLOCKS INTERVALS GIVEN IN INCREMENTS OF 12'–0"

NO.1 DOCKING POSITION–AFTER SIDE OF NO.1 BLOCK 43'–6 3/8" FROM AFT REF POINT

SIDE	BLK NO.	FWD OF REF PT	POINT A		POINT B		BEVEL IN 18" FOR C
			HB	HT	HB	HT	
P/S	1	43'–6 3/8"	7–9–0	4–1–0	10–3–0	4–7–3	–4 7/8"
P/S	2	55'–6 3/8"	13–9–0	2–7–0+	16–3–0	3–0–6	–3 1/16"
P/S	3	67'–6 3/8"	13–9–0	1–3–2	16–3–0	1–6–3+	–1 5/16"
P/S	4	79'–6 3/8"	13–9–0	0–10–5+	16–3–0	1–0–0	0
P/S	5	91'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	6	103'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–0+	0
P/S	7	115'–6 3/8"	12–9–0	0–9–6+	15–3–0	1–0–1	0
S	8	127'–6 3/8"	12–9–0	1–0–5	15–3–0	1–3–4	(–) 1/2"
P/S	9	139'–6 3/8"	6–9–0	0–10–4	9–3–0	1–3–4	(–) 1 1/8"
P/S	10	151'–6 3/8"	6–9–0	1–10–3	9–3–0	2–7–6+	(–) 2 7/16"

DOCKING PLAN GENERAL NOTES

1. ARABIC NUMERALS REPRESENT NAVIGATIONAL DRAFTS AND HEIGHT ABOVE BOTTOM OF FLAT KEEL AMIDSHIPS EXTENDED.
2. DIMENSIONS :
   (A) LONGITUDINAL LOCATIONS OF ALL ITEMS ARE GIVEN FROM THE STERN REFERENCE POINT (AFTER END OF MAIN DECK AT CENTERLINE).
   (B) HEIGHTS OF ALL ITEMS ARE GIVEN FROM THE BOTTOM OF THE KEEL AMIDSHIPS EXTENDED.
   (C) LONGITUDINAL LOCATIONS OF SIDE BLOCKS ARE TAKEN TO THE AFTER SIDE OF BLOCKS. HEIGHT OF SIDE BLOCKS ARE TAKEN TO THE AFTER SIDE OF BLOCKS AFT OF AMIDSHIPS AND TO THE FORWARD SIDE OF BLOCKS FORWARD OF AMIDSHIPS.
3. COMPLETE PAINTING OF HULL :
   (A) IN ORDER TO CLEAN AND PAINT THE ENTIRE BOTTOM OF THE VESSEL IN THREE SUCCESSIVE DOCKINGS. THE FOLLOWING POSITIONS OF THE VESSEL ARE NECESSARY:
      (1) POSITION NO.1 AFTER END OF MAIN DECK (POINT OF REFERENCE) IS PLACED 43'–6 3/8" AFT OF AFTER SIDE OF NO.1 SIDE BLOCK.
      (2) POSITION NO.2 AFTER END OF MAIN DECK (POINT OF REFERENCE) IS PLACED 45'–6 3/8" AFT OF AFTER SIDE OF NO.1 SIDE BLOCK.
      (3) POSITION NO.3 AFTER END OF MAIN DECK (POINT OF REFERENCE) IS PLACED 41'–6 3/8" AFT OF AFTER SIDE OF NO.1 SIDE BLOCK.
   (B) REPEAT CYCLE OF POSITIONS ASCERTAIN FROM VESSEL THE POSITION OF VESSEL AT ITS LAST DOCKING.
4. DIMENSIONS OF OFFSET TABLES ARE GIVEN IN FEET, INCHES AND EIGHTS OF AN INCH.
5. KEEL BLOCKS SHALL BE CONFIGURED TO CLEAR DRAIN PLUGS.
6. BLOCKING :
   (A) BLOCKING SHOWN ON THIS PLAN IS THAT REQUIRED FOR BLOCKING UNDER ORDINARY UNDAMAGED CONDITIONS FOR 8'–0", 12'–0" OR 16'–0" SPACED BEARERS IN DRYDOCK.
   (B) KEEL BLOCKS :
      (1) KEEL BLOCKS SHALL BE ARRANGED IN PIERS CONSISTING OF THREE 14"x14" HARDWOOD TIMBERS MOUNTED WITH 2 INCH MIN THICKNESS SOFTWOOD CAP. BLOCKS LONGITUDINAL SPACING TO BE 6'–0" CENTER TO CENTER WITH 30 INCH CLEAR SPAN BETWEEN PIERS.
      (2) NO BLOCKS OR SHORES ARE REQUIRED UNDER ORDINARY CONDITIONS OF DOCKING UNDER THE BOW FORWARD OF FRAME 16 AND UNDER THE STERN AFT OF FRAME 81.
      (3) DOCKING POSITION NO.1 OMIT BLOCKS 6 AND 9.
      (4) DOCKING POSITION NO.2 OMIT BLOCKS 11, 14, 16 AND 18.
      (5) DOCKING POSITION NO.3 OMIT BLOCKS 6, 9, 12 AND 17.
   (C) SIDE BLOCKS (SHOWN ON THIS PLAN IN ALL THREE DOCKING POSITIONS) ARE INDICATED FOR 8'–0" SPACED BEARERS (P) AND 12'–0" SPACED BEARERS (S).
      (1) SIDE BLOCKS SHALL BE LOCATED (P) AND (S) UNDER LONGITUDINAL BULKHEADS OFF CENTERLINE AS INDICATED ON TABLE OF OFFSETS IN ACCORDANCE WITH BEARER SPACING OF DOCK, EXCEPT AS NOTED.
      (2) SOFT WOOD CAPS ARE REQUIRED.
      (3) DIRECTION OF BEVEL ON BLOCKS IN 18" IS GIVEN ON "TYPICAL BEVELED BLOCK" SKETCHES (ZONE 110–A & 111–A) FOR FWD & AFT BLOCKS AND IN TABLE OF OFFSETS DIMENSION "C".
      (4) THE TABLES OF OFFSETS WILL PERMIT DOCKING FROM PLAN IN DOCKS WHICH HAVE 8'–0", 12'–0" OR 16'–0" BEARER SPACING. BLOCK SPACINGS 12'–0" OR 16'–0" ONLY ARE REQUIRED WHEN DOCKING VESSELS OFF CENTER IN DOCKS WHICH HAVE 8'–0" BEARER SPACING. IT IS PERMISSIBLE TO STAGGER THE BLOCKS USING ODD ON ONE SIDE AND EVEN ON THE OTHER.
      (5) SIDE BLOCKS ARE NUMBERED FROM AFT TO FORWARD WITH AFT BLOCK AS NO.1.
      (6) UNIVERSAL CAP SIDE BLOCKS MAY BE USED IN LIEU OF FITTED BLOCKS.

CRITICAL DIMENSIONS

LENGTH OVERALL	208'–2 1/4"
LENGTH BETWEEN PERPENDICULARS	190' (MOLDED)
BREADTH (EXTREME)	45'–0 5/8"
FRAME SPACING	24"
FIRST SIDE BLOCK IS:	FROM AFT REF POINT
NO.1 DOCKING POSITION	43'–6 3/8"
NO.2 DOCKING POSITION	45'–6 3/8"
NO.3 DOCKING POSITION	41'–6 3/8"
END OF SKEG	25'–6 3/8"
HEIGHT OF MAST ABV 14'–0" WL	74'–0"
DRAFT – FULL LOAD	14'–0"

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	OYLJ5	TJ–085–002	–
SCALE: NONE		CAD FILENAME TJ–085–002	SHT 11 OF 15

LIST OF DRAIN PLUGS (IN SHELL)

NO.	SIDE	FWD OR AFT	FRAME	DIST OFF CL SHIP	TANK NAME	REMARKS
1	S	6" FWD	8	4"	FP BAL 4-0-0-W	
2	P	6" FWD	16	6"	BAL TK 4-8-2-W	
3	S	6" FWD	16	6"	BAL TK 4-8-1-W	
4	P	6" FWD	22	7"	DO TK 4-16-2-F	
5	S	6" FWD	22	7"	DO TK 4-16-1-F	
6	P	6" FWD	30	8'-6"	BAL TK 4-22-2-W	
7	P	10" AFT	28	6"	GREY WTR TK 4-22-0-W	
8	S	6" FWD	30	8'-6"	BAL TK 4-22-1-W	
9	P	6" FWD	30	6"	GREY WTR TK 4-22-0-W	
10	P	6" FWD	34	6"	XDCR VOID 4-30-0-V	
11	P	6" FWD	43	8'-6"	DO TK 4-34-2-F	
12	P	10" FWD	43	6"	DO TK 4-34-0-F	
13	S	6" FWD	43	8'-6"	DO TK 4-34-1-F	
14	P	6" FWD	51	9'-6"	BAL TK 4-43-2-W	
15	P	6" FWD	55	6"	DO TK 4-43-0-F	
16	S	6" FWD	51	9'-6"	BAL TK 4-43-1-W	
17	P	8 3/4" AFT	55	9'-6"	DO TK 4-55-4-F	
18	P	6" AFT	55	6"	SLOP TK 4-55-2-W	
19	S	8 3/4" AFT	55	9'-6"	DO TK 4-55-3-F	
20	P	6" FWD	59	6"	SEW HLDG TK 4-57-0-W	
21	S	6" FWD	59	6"	SEW HLDG TK 4-57-0-W	
22	P	6" AFT	59	6"	SEW HLDG TK 4-57-0-W	
23	P	6" AFT	75	9'-6"	DO TK 4-75-4-F	
24	P	6" AFT	75	42"	DO TK 4-75-2-F	
25	S	6" AFT	75	42"	DO TK 4-75-1-F	
26	S	6" AFT	75	9'-6"	DO TK 4-75-3-F	
27	P	6" AFT	87	9'-6"	VOID 4-87-2-W	
28	S	6" AFT	87	9'-6"	VOID 4-87-1-W	
29	P	6" AFT	65	6"	ENG RM 4-55-0-F	
30	S	6" AFT	87	6"	STRG GR RM 4-87-0-F	

TABLE OF OFFSETS FOR SIDE BLOCKS
INTERVALS GIVEN IN INCREMENTS OF 8'-0"

NO.3 DOCKING POSITION–AFTER SIDE OF NO.1 BLOCK 41'-6 3/8" FROM AFT REF POINT

SIDE	BLK NO.	FWD OF REF PT	POINT A		POINT B		BEVEL IN 18" FOR C
			HB	HT	HB	HT	
P/S	1	41'-6 3/8"	7-9-0	4-7-5+	10-3-0	5-2-0+	-5"
P/S	2	49'-6 3/8"	7-9-0	2-6-6	10-3-0	3-1-0+	-3 7/8"
P/S	3	57'-6 3/8"	13-9-0	2-3-1+	16-3-0	2-8-4+	-2 5/8"
P/S	4	65'-6 3/8"	13-9-0	1-4-7+	16-3-0	1-8-4+	-1 7/16"
P/S	5	73'-6 3/8"	13-9-0	0-11-4	16-3-0	1-2-0	-9/16"
P/S	6	81'-6 3/8"	13-9-0	0-10-5+	16-3-0	1-1-0	0
P/S	7	89'-6 3/8"	12-9-0	0-9-6+	16-3-0	1-0-0+	0
P/S	8	97'-6 3/8"	12-9-0	0-9-6+	15-3-0	1-0-0+	0
P/S	9	105'-6 3/8"	12-9-0	0-9-6+	15-3-0	1-0-0+	0
P/S	10	113'-6 3/8"	12-9-0	0-9-6+	15-3-0	1-0-0+	0
P/S	11	121'-6 3/8"	12-9-0	0-10-4+	15-3-0	1-1-0+	(-)5/16"
P/S	12	129'-6 3/8"	6-9-0	0-6-1	9-3-0	0-9-2	(-)7/16"
P/S	13	137'-6 3/8"	6-9-0	0-9-2+	9-3-0	1-1-6+	(-)7/8"
P/S	14	145'-6 3/8"	6-9-0	1-3-2	9-3-0	1-10-0+	(-)1 5/8"

TABLE OF OFFSETS FOR SIDE BLOCKS
INTERVALS GIVEN IN INCREMENTS OF 12'-0"

NO.3 DOCKING POSITION–AFTER SIDE OF NO.1 BLOCK 41'-6 3/8" FROM AFT REF POINT

SIDE	BLK NO.	FWD OF REF PT	POINT A		POINT B		BEVEL IN 18" FOR C
			HB	HT	HB	HT	
P/S	1	41'-6 3/8"	7-9-0	4-7-5+	10-3-0	5-2-0+	-5"
P/S	2	53'-6 3/8"	13-9-0	2-11-4	16-3-0	3-5-4	-3 1/2"
P/S	3	65'-6 3/8"	13-9-0	1-4-7+	16-3-0	1-8-4+	- 1 1/2"
P/S	4	77'-6 3/8"	13-9-0	0-10-5+	16-3-0	1-1-0	0
P/S	5	89'-6 3/8"	12-9-0	0-9-6+	15-3-0	1-1-0+	0
P/S	6	101'-6 3/8"	12-9-0	0-9-6+	15-3-0	1-1-0+	0
P/S	7	113'-6 3/8"	12-9-0	0-9-6+	15-3-0	1-1-0+	0
S	8	125'-6 3/8"	12-9-0	0-11-6	15-3-0	1-2-4	(-) 9/16"
P/S	9	137'-6 3/8"	6-9-0	0-9-2+	9-3-0	1-1-6+	(-) 1 1/16"
P/S	10	149'-6 3/8"	6-9-0	1-7-5	9-3-0	2-4-1	(-) 2 1/8"

TABLE OF DISPLACEMENT AND OTHER PROPERTIES FOR DOCKING

MEAN DRAFT (FT)	NO CORRECTION FOR TRIM					
	DISPLACEMENT (TONS) (SEA WATER)	APPROX.MOMENT TO CHANGE TRIM ONE INCH (FOOT TONS)	C B FWD OF STERN REF. POINT (FT)	TONS PER INCH IMMERSION (SEA WATER)	LONG CTR OF FLOATATION (FT)	
					AFT OF MIDSHIPS	FWD OF STERN REF. POINT
12.0	1725.15	170.26	98.77	15.76	4.57	91.96
12.5	1820.67	180.47	98.38	16.08	5.68	90.85
13.0	1918.15	190.96	97.97	16.39	6.76	89.77
13.25	1967.56	195.76	97.76	16.38	7.24	89.29
13.50	2017.34	200.18	97.55	16.67	7.64	88.89
13.75	2067.59	204.30	97.34	16.79	8.00	88.53
14.0	2118.16	208.36	97.12	16.91	8.35	88.18
14.25	2169.03	211.76	96.91	17.0	8.60	87.93
14.50	2220.18	215.15	96.70	17.10	8.85	87.68

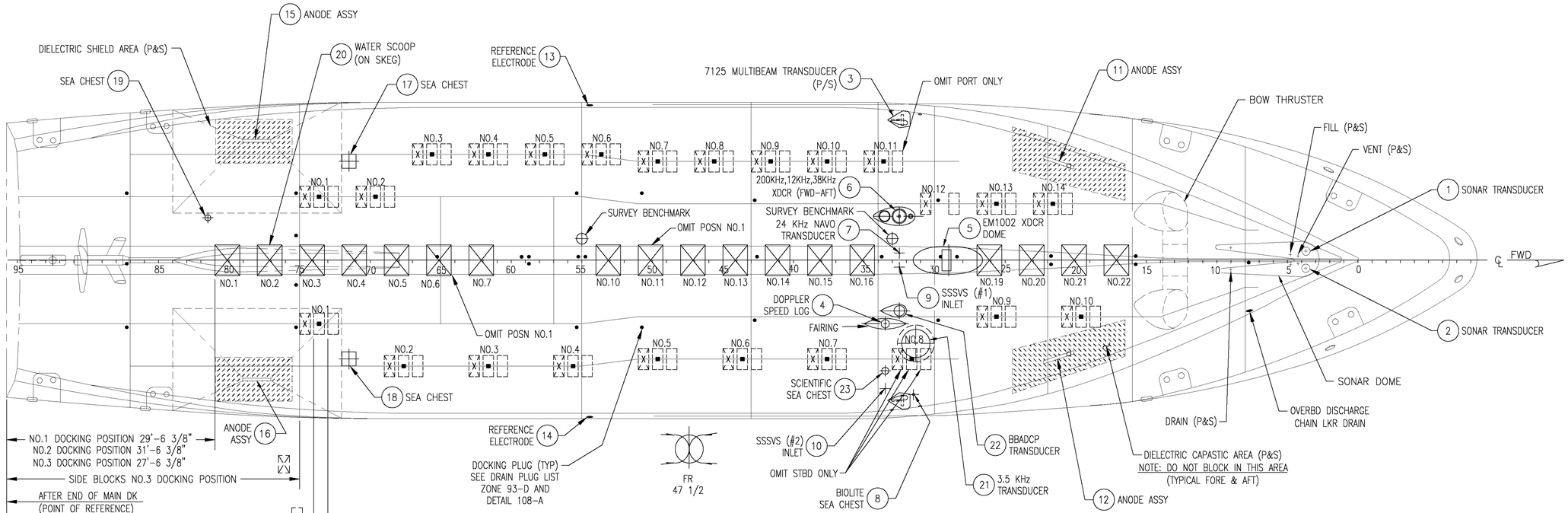
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	-
SCALE: NONE		CAD FILENAME TJ-085-002	SHT 12 OF 15

LIST OF OPENINGS IN SHELL BELOW DWL							
ITEM NO.	SERVICE	SIZE OF PENETRATION	SIDE	FWD OR AFT	FRAME	FWD OF AFT REF POINT	DISTANCE OFF CL SHIP	HEIGHT ABV KEEL BOTTOM
1	SONAR TRANSDUCER	10 13/16" DIA	P	6" FWD	4	184.03	12"	1'-2 3/16"
2	SONAR TRANSDUCER	10 13/16" DIA	S	6" FWD	4	184.03	12"	1'-2 3/16"
3	7125 MULTIBEAM TRANSDUCERS	2" DIA	P/S	6" AFT	32	127.01	19'-7 7/8"	(19")
4	DOPPLER SPEED LOG	9 3/4" DIA	S	12" FWD	34	124.53	9'-0"	(2 1/2")
5	EM1002 XDCR DOME	2" DIA	CL	0	29	133.71	0	(19")
6	38 KHZ 12 KHZ 200KHZ TRANSDUCERS	2" DIA	P	12" AFT	32	126.55	6'-2 7/8"	(12")
7	24 KHZ NAVO TRANSDUCER	2" DIA	P	12" AFT	32	126.69	1'-0"	0
8	BIOLITE SEA CHEST	4" DIA	S	12" FWD	32	128.53	19'-1"	0
9	SSSVS (#1) INLET	1 1/2" DIA	S	12" FWD	33	126.53	12"	0
10	SSSVS (#2) INLET	1 1/2" DIA	S	12" FWD	34	124.53	18'-2 5/8"	0
11	ANODE ASSEMBLY	3 1/16" DIA	P	12" FWD	21	150.64	13'-4"	4'-2 1/4"
12	ANODE ASSEMBLY	3 1/16" DIA	S	12" FWD	21	150.64	13'-4"	4'-2 1/4"
13	REFERENCE ELECTRODE	3 1/16" DIA	P	12" FWD	55	82.53	–	6'-6"
14	REFERENCE ELECTRODE	3 1/16" DIA	S	12" FWD	55	82.53	–	6'-6"
15	ANODE ASSEMBLY	3 1/16" DIA	P	–	78	35.53	16'-8 1/2"	8'-2 1/2"
16	ANODE ASSEMBLY	3 1/16" DIA	S	–	78	35.53	16'-8 1/2"	8'-2 1/2"
17	SEACHEST	24" x 24"	P	12" AFT	71	48.53	14'-0"	3'-7 3/4"
18	SEACHEST	24" x 24"	S	12" AFT	71	48.53	14'-0"	3'-7 3/4"
19	SEACHEST	10"DIA	P	12" AFT	81	28.53	6'-0"	8'-0"
20	WATER SCOOP	2"DIA	P	12" FWD	78	36.53	18"	3'-0"
21	3.5 KHZ TRANSDUCER	48" DIA	S	12" FWD	32	128.53	10'-11 7/8"	9 1/2"
22	BBADCP TRANSDUCER	9" DIA	S	12" FWD	33	126.53	7'-2"	(2 1/2")
23	SCIENTIFC SEA CHEST	12" DIA	S	12" FWD	34	124.53	15'-8 1/2"	0

BEARING ON BLOCKS TABLE			
SUPPORT	BEARING ON SHELL PLATING		
	8'-0" SPACED BEARERS	12'-0" SPACED BEARERS	16'-0" SPACED BEARERS
SIDE BLOCKS 18" x 36" (TOTAL P & S)	13,500 SQ. IN. 93.75 SQ. FT	10,260 SQ. IN. 71.25 SQ. FT	7020 SQ. IN. 48.75 SQ. FT
KEEL BLOCKS 52" x 42" (18 EA)	20,412 SQ. IN. 141.75 SQ. FT	20,412 SQ. IN. 141.75 SQ. FT	20,412 SQ. IN. 141.75 SQ. FT
TOTAL BEARING	33,912 SQ. IN 235.5 SQ. FT	30,672 SQ. IN. 213.0 SQ. FT	27,432 SQ. IN. 190.5 SQ. FT
BEARING PER SQ. IN. BLOCKING	139.9 LB	154.7 LB	172.9 LB
BEARING PER SQ. FT. BLOCKING	8.99 TONS	9.94 TONS	11.12 TONS

NOTE:
KEEL BLOCK BEARING AREA BASED ON POSITION 3 (6 BLOCKS WITH 48 INCH WIDTH OF SHOE, 1 BLOCK WITH 36 INCH WIDTH OF SHOE, 1 BLOCK WITH 50 INCH WIDTH OF SHOE. 5 BLOCKS WITH 24 INCH WIDTH OF SHOE, AND 1 BLOCK WITH 1/2 INCH WIDTH OF SHOE). FULL LOAD DISPLACEMENT 2118 LT OR 4,744,320 LB

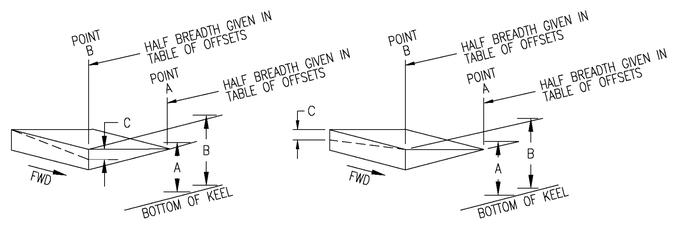
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	–
SCALE: NONE		CAD FILENAME TJ-085-002	SHT 13 OF 15


15 ANODE ASSY
DIELECTRIC SHIELD AREA (P&S)
20 WATER SCOOP (ON SKEG)
SEA CHEST 19
17 SEA CHEST
REFERENCE ELECTRODE 13
7125 MULTIBEAM TRANSDUCER (P/S) 3
OMIT PORT ONLY
11 ANODE ASSY
BOW THRUSTER
FILL (P&S)
VENT (P&S)
1 SONAR TRANSDUCER
200KHz,12KHz,38KHz XDCR (FWD-AFT) 6
SURVEY BENCHMARK
OMIT POSN NO.1
24 KHz NAVO TRANSDUCER 7
5 EM1002 XDCR DOME
NO.1 NO.2 NO.3 NO.4 NO.5 NO.6 NO.7 NO.8 NO.9 NO.10 NO.11 NO.12 NO.13 NO.14
95 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
℄ FWD
NO.1 NO.2 NO.3 NO.4 NO.5 NO.6 NO.7 NO.10 NO.11 NO.12 NO.13 NO.14 NO.15 NO.16 NO.19 NO.20 NO.21 NO.22
9 SSSVS (#1) INLET
DOPPLER SPEED LOG 4
FAIRING
2 SONAR TRANSDUCER
SONAR DOME
OVERBD DISCHARGE CHAIN LKR DRAIN
DRAIN (P&S)
18 SEA CHEST
SCIENTIFIC SEA CHEST 23
22 BBADCP TRANSDUCER
DIELECTRIC CAPASTIC AREA (P&S)
NOTE: DO NOT BLOCK IN THIS AREA
(TYPICAL FORE & AFT)
ANODE ASSY 16
NO.1 DOCKING POSITION 29'-6 3/8"
NO.2 DOCKING POSITION 31'-6 3/8"
NO.3 DOCKING POSITION 27'-6 3/8"
SIDE BLOCKS NO.3 DOCKING POSITION
AFTER END OF MAIN DK (POINT OF REFERENCE)
SIDE BLOCKS NO.1 DOCKING POSITION
SIDE BLOCKS NO.2 DOCKING POSITION
REFERENCE ELECTRODE 14
DOCKING PLUG (TYP) SEE DRAIN PLUG LIST ZONE 93-D AND DETAIL 108-A
FR 47 1/2
SSSVS (#2) INLET 10
OMIT STBD ONLY
BIOLITE SEA CHEST 8
21 3.5 KHz TRANSDUCER
12 ANODE ASSY

PLAN VIEW 108-B

INTERVALS OF SIDE BLOCKING SHOWS 8'=0" ON PORT SIDE, 12'-0" ON STBD SIDE
KEEL BLOCKS IN POSITIONS NO. 2 & 3 NOT SHOWN FOR CLARITY
SCALE: 1/8"=1'-0"

NOTE: ITEM NUMBERS REFER TO LIST OF OPENINGS IN SHELL BELOW DWL TABLE, ZONE 98-D.

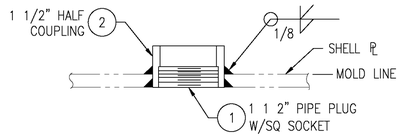


TYPICAL BEVELED BLOCK

AFT BLOCK
SCALE: NONE

TYPICAL BEVELED BLOCK

FWD BLOCK
SCALE: NONE



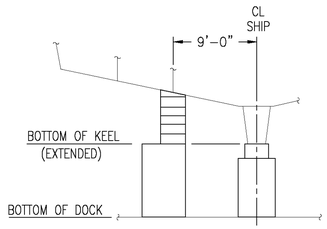
DETAIL 108-A

DOCKING PLUG
SCALE: NONE

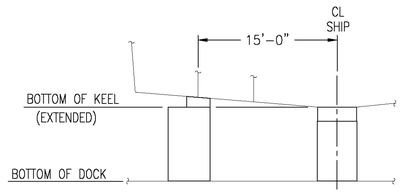
NOTE: EACH DOCKING PLUG (PC 1) IS TO BE PUNCH MARKED WITH THE NUMBER OF THE TANK THAT IT IS INSTALLED IN.

ITEM NUMBERS REFER TO PARTS LIST, ZONE 82-D.

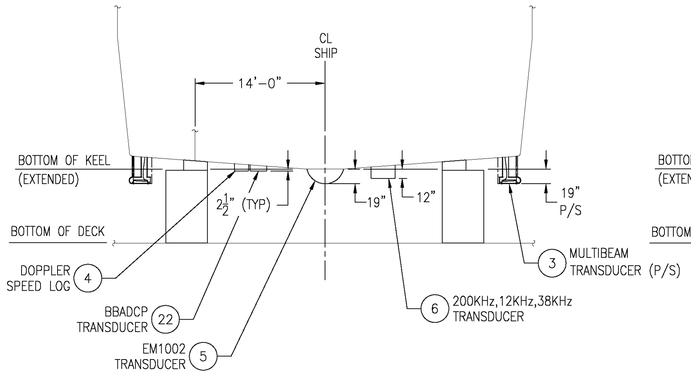
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	-
SCALE: AS SHOWN		CAD FILENAME TJ-085-002	SHT 14 OF 15



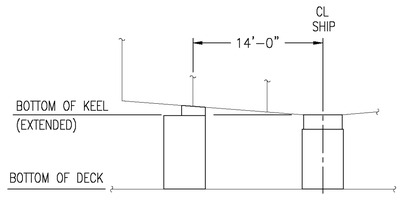
SECTION 119-C
FR 74 LKG AFT



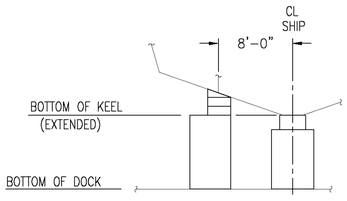
SECTION 118-C
FR 62 LKG AFT



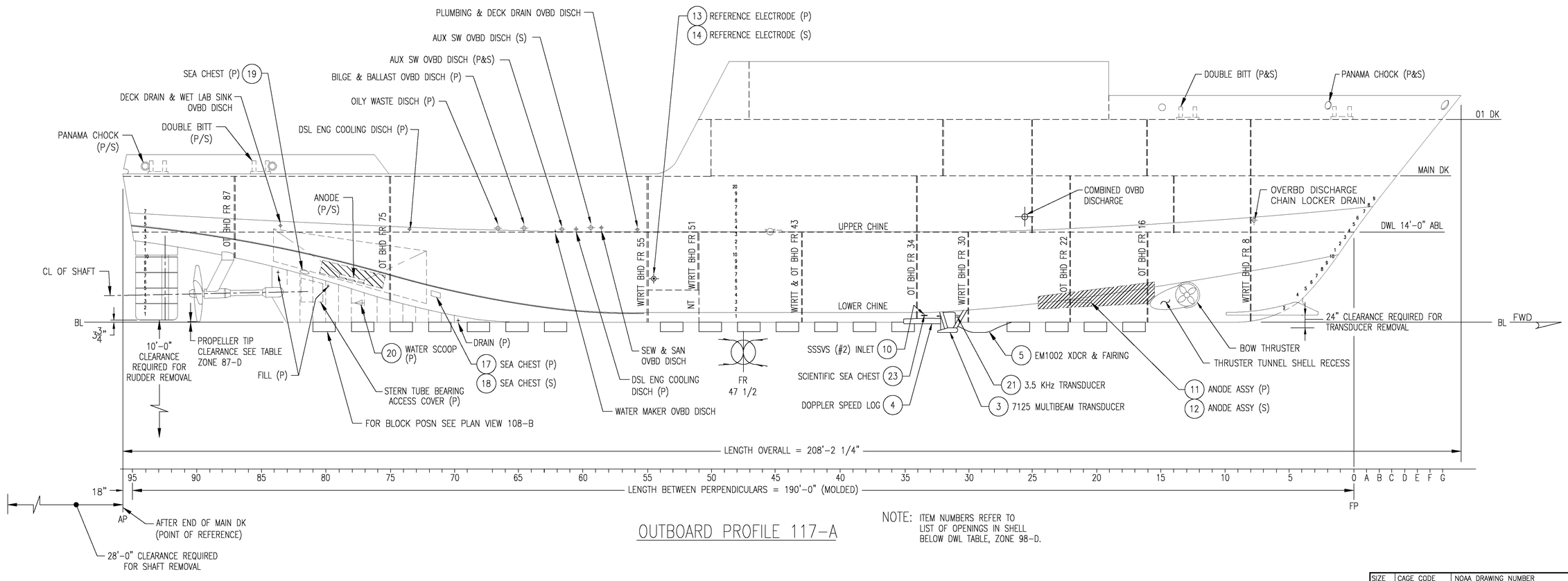
SECTION 116-C
FR 32 LKG AFT



SECTION 115-C
FR 38 LKG AFT



SECTION 113-C
FR 21 LKG AFT


PLUMBING & DECK DRAIN OVBD DISCH
AUX SW OVBD DISCH (S)
AUX SW OVBD DISCH (P&S)
BILGE & BALLAST OVBD DISCH (P)
OILY WASTE DISCH (P)
DSL ENG COOLING DISCH (P)
SEA CHEST (P) 19
DECK DRAIN & WET LAB SINK OVBD DISCH
DOUBLE BITT (P/S)
PANAMA CHOCK (P/S)
13 REFERENCE ELECTRODE (P)
14 REFERENCE ELECTRODE (S)
DOUBLE BITT (P&S)
PANAMA CHOCK (P&S)
01 DK
MAIN DK
UPPER CHINE
LOWER CHINE
DWL 14'-0" ABL
COMBINED OVBD DISCHARGE
OVERBD DISCHARGE CHAIN LOCKER DRAIN
ANODE (P/S)
OT BHD FR 87
OT BHD FR 75
WTRTT BHD FR 55
WTRTT BHD FR 51
NT
WTRTT & OT BHD FR 43
OT BHD FR 34
WTRTT BHD FR 30
OT BHD FR 22
OT BHD FR 16
WTRTT BHD FR 8
CL OF SHAFT
BL
3¾"
10'-0" CLEARANCE REQUIRED FOR RUDDER REMOVAL
PROPELLER TIP CLEARANCE SEE TABLE ZONE 87-D
FILL (P)
20 WATER SCOOP (P)
17 SEA CHEST (P)
18 SEA CHEST (S)
DRAIN (P)
STERN TUBE BEARING ACCESS COVER (P)
FOR BLOCK POSN SEE PLAN VIEW 108-B
SEW & SAN OVBD DISCH
DSL ENG COOLING DISCH (P)
WATER MAKER OVBD DISCH
FR 47 1/2
SSSVS (#2) INLET 10
SCIENTIFIC SEA CHEST 23
DOPPLER SPEED LOG 4
5 EM1002 XDCR & FAIRING
21 3.5 KHz TRANSDUCER
3 7125 MULTIBEAM TRANSDUCER
11 ANODE ASSY (P)
12 ANODE ASSY (S)
BOW THRUSTER
THRUSTER TUNNEL SHELL RECESS
24" CLEARANCE REQUIRED FOR TRANSDUCER REMOVAL
BL FWD
LENGTH OVERALL = 208'-2 1/4"
95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 A B C D E F G
LENGTH BETWEEN PERPENDICULARS = 190'-0" (MOLDED)
FP
18"
AP
AFTER END OF MAIN DK (POINT OF REFERENCE)
28'-0" CLEARANCE REQUIRED FOR SHAFT REMOVAL

OUTBOARD PROFILE 117-A

NOTE: ITEM NUMBERS REFER TO LIST OF OPENINGS IN SHELL BELOW DWL TABLE, ZONE 98-D.

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-085-002	-
SCALE: 1/8"=1'-0"	CAD FILENAME TJ-085-002	SHT 15 OF 15	